



THE CITY OF SAN DIEGO

Technical Policy 4-1

Subject: Minimum Plumbing Facilities
Code Edition: 2010 California Plumbing Code
Code Section: CPC Section 412
Issue Date: May 2012
Approved By: **Signed Copy on File**
Afsaneh Ahmani
Chief Building Official

TECHNICAL POLICY 4-1 MINIMUM PLUMBING FACILITIES¹

The City of San Diego has development the following Technical Policy to establish minimum required number of plumbing fixtures based on Table 4-1 California Plumbing Code (CPC). This policy includes some modifications to 2010 CPC Table 4-1 requirements pertaining to the following:

1. Office or Public Buildings
2. Office or Public Buildings for employee use
3. Restaurants, Pubs, and Lounges
4. Fitness Center, Gym, Weight room
5. Footnotes number 20, 21, 22, and 23 are added to this table

When multiple of plumbing fixtures are installed in a bathroom, a privacy partition is required to be installed between fixtures (with exception of hand sinks), in order for each fixture to be counted towards the minimum number of the required fixture for all occupancies.

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department Having Jurisdiction¹⁸. Technical Policy 4-1 applies to new buildings, additions to a building, and changes of occupancy or type in an existing building, resulting in increased occupant load. Exception: New cafeterias used only by employees.

For requirements for persons with disabilities, Chapter 11A or 11B of the California Building Code shall be used.

The total occupant load shall be determined in accordance with the **[BSC, DSA-SS&DSA-SS/CC]** Occupant Load Factor Table A. The type of building or occupancy shall be determined based on the actual use of the various spaces within the building. Building categories not shown in Technical Policy 4-1 shall be considered separately by the Authority Having Jurisdiction. The minimum number of fixtures shall be calculated at 50 percent male and 50 percent female based on the total occupant load. Once the occupant load and uses are determined, the requirements of Section 412.0 and Technical Policy 4-1 shall be applied to determine minimum number of plumbing fixtures required.

Exceptions:

(1) **[HCD 1-AC&HCD 2]** For applications listed in Sections 1.8.2.1.2 and 1.8.2.1.3 regulated by the Department of Housing and Community Development, each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department. Covered multi-family dwellings required to be accessible to persons with disabilities shall comply with California Code of Regulations, Title 24, Part 2, Chapter 11A. Permanent buildings in mobilehome parks and special occupancy parks required to be accessible by persons with disabilities, shall comply with California Code of Regulations, Title 24, Part 2, Chapter 11B.

(2) **[HCD 1]** For limited density owner-built rural dwelling sanitary facilities, the type, design and number of facilities as required and approved by the local health official shall be provided to the dwelling sites. It shall not be required that such facilities be located within the dwelling.

TYPE OF BUILDING ² OR OCCUPANCY	WATER CLOSETS ¹⁴ (FIXTURES PER PERSON)	URINALS ^{5,10} (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)	BATHRUHS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS ³ , 13, 17 (FIXTURES PER PERSON)
Assembly places – theatres, auditoriums, convention halls, etc.– for permanent employee use	Male Female 1: 1-15 1: 1-15 2: 16-35 3: 16-35 3: 36-55 4: 36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 0: 1-9 1: 10-50 Add one fixture for each additional 50 males.	Male Female 1 per 40 1 per 40		

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Assembly places – theatres, auditoriums, convention Halls, etc. – for public use	Male Female 1: 1-100 3: 1-50 2: 101-200 4: 51-100 3: 201-400 8: 101-200 11: 201-400 Over 400, add one fixture for each additional 500 males and 1 for each additional 125 females.	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600 Over 600, add 1 fixture for each additional 300 males.	Male Female 1:1-200 1:1-200 2:201-400 2:201-400 3:401-750 3:401-750 Over 750, add one fixture for each additional 500 persons		1:1-150 2:151-400 3:401-750 Over 750, add one fixture for each additional 500 persons.
Dormitories ⁹ School or Labor ¹⁶	Male Female 1 per 10 1 per 8 Add 1 fixture for each additional 25 males (over 10) and 1 for each additional 20 females (over 8).	Male 1 per 25 Over 150, add 1 fixture for each additional 50 males.	Male Female 1 per 12 1 per 12 Over 12 add one fixture for each additional 20 males and 1 for each 15 additional females.	1 per 8 For females, add 1 bathtub per 30. Over 150, add 1 per 20	1 per 150 ¹²
Dormitories for staff use ¹⁶	Male Female 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55 Over 55, add 1 fixture for each additional 40 persons	Male 1 per 50	Male Female 1 per 40 1 per 40	1 per 8	
Dwellings ⁴ Single Dwelling Multiple Dwelling or apartment house ¹⁶	1 per dwelling 1 per dwelling or apartment unit		1 per dwelling 1 per dwelling or apartment unit	1 per dwelling 1 per dwelling or apartment unit	
Hospital Waiting Rooms	1 per room		1 per room		1 per 150 ¹²
Hospitals - for employee use	Male Female 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 0:1-9 1:10-50 Add one fixture for each additional 50 males.	Male Female 1 per 40 1 per 40		
Hospital Individual Room Ward Room	1 per room 1 per 8 patients		1 per room 1 per 10 patients	1 per room 1 per 20 patients	1 per 150 ¹²
Industrial ⁶ Warehouses, Workshops, Foundries and similar establishments for employee use.	Male Female 1:1-10 1:1-10 2:11-25 2:11-25 3:26-50 3:26-50 4:51-75 4:51-75 5:76-100 5:76-100 Over 100, add 1 fixture for each additional 30 persons		Up to 100, 1 per 10 persons Over 100, 1 per 15 persons ^{7,8}	1 shower for each 15 persons exposed to excessive heat or to skin contamination with poisonous, infectious, or irritating material	1 per 150 ¹²
Institutional - Other than Hospitals or Penal Institutions (on each occupied floor)	Male Female 1 per 25 1 per 20	Male 0:1-9 1:10-50 Add one fixture for each additional 50 males	Male Female 1 per 10 1 per 10	1 per 8	1 per 150 ¹²
Institutional - Other than Hospitals or Penal Institutions (on each occupied floor) - for employee use	Male Female 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 0:1-9 1:10-50 Add one fixture for each additional 50 males.	Male Female 1 per 40 1 per 40	1 per 8	1 per 150 ¹²

TYPE OF BUILDING ² OR OCCUPANCY	WATER CLOSETS ¹⁴ (FIXTURES PER PERSON)	URINALS ^{5,10} (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)	BATHRUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS ^{3, 13, 17} (FIXTURES PER PERSON)
Office or Public Buildings	Male Female 1:1-100 3:1-50 2:101-200 4:51-100 3:201-400 8:101-200 11:201-400 Over 400, add one fixture for each additional 500 males and 1 for each additional 150 females.	Male 1:1-100 2:101-200 3:201-400 4:401-600 Over 600, add 1 fixture for each additional 300 males.	Male Female 1:1-200 1:1-200 2:201-400 2:201-400 3:401-750 3:401-750 Over 750, add one fixture for each additional 500 persons		1 per 150 ¹²
Office or Public Buildings for employee use.	Male Female 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 0:1-9 1:10-50 Add one fixture for each additional 50 males.	Male Female 1 per 40 1 per 40		
Penal Institutions- for employee use	Male Female 1:1-15 1:1-15 2:16-35 3:16-35 3:36-55 4:36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 0:1-9 1:10-50 Add one fixture for each additional 50 males.	Male Female 1 per 40 1 per 40		1 per 150 ¹²
Penal Institutions for prison use Cell Exercise Room Exercise Area	1 per cell 1 per exercise room 1 per 20	Male 1 per exercise room	1 per cell 1 per exercise room 1 per 20	1 per 16	1 per cell block floor 1 per exercise room Access to drinking fountain
Agricultural Buildings Milking Barns Meat & Poultry Inspection Bldg.	At least 1 Male Female 1:1-15 1:1-15 2:16-35 2:16-35 3:36-55 3:36-55 4:56-80 4:56-80 1 for each additional 30 persons in excess of 80.		At least 1		
School of Cosmetology	Male Female *At least 1 *At least 2 *per installation		At least 1		
Cosmetological Establishments	Male Female *At least 1 *At least 1 *per installation				
Corrections Standards Authority Juvenile Halls Camp	1 per 6 1 per 10		1 per 10 1 per 10	1 per 6 1 per 7	Access to drinking fountains Access to drinking fountain

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<i>Corrections Standards Authority Local Detention Facilities Locked Sleeping Rooms¹⁹</i>	<i>1 per 8 1</i>		<i>1 per 8 1</i>	<i>1 per 20</i>	
Public or professional Offices ¹⁵	Same as Office or Public Buildings for employee use ¹⁵	Same as Office or Public Buildings for employee use ¹⁵	Same as Office or Public Buildings for employee use ¹⁵		Same as Office or Public Buildings for employee use ¹⁷
<i>Restaurants, Pubs, and Lounges^{11, 15, 20, 21}</i>	Male Female 1:1-50 1:1-50 2:51-150 2:51-150 3:151-300 4:151-300 Over 300, add 1 fixture for each additional 200 persons.	Male 1:1-150 Over 150, add 1 fixture for each additional 150 males.	Male Female 1:1-150 1:1-150 2:151-200 2:151-200 3:201-400 3:201-400 Over 400, add 1 fixture for each additional 400 persons.		
Retail Or Wholesale Stores	Male Female 1:1-100 1:1-25 2:101-200 2:26-100 3:201-400 4:101-200 6:201-300 8:301-400 Over 400, add 1 fixture for each additional 500 males and 1 for each 150 females.	Male 0:0-25 1:26-100 2:101-200 3:201-400 4:401-600 Over 600, add 1 fixture for each additional 300 males.	1 for each 2 water closets.		0:1-30 1:31-150 1 additional drinking fountain for each 150 persons thereafter.
Schools - for staff use All schools	Male Female 1:1-15 1:1-15 2:16-35 2:16-35 3:36-55 3:36-55 Over 55, add 1 fixture for each additional 40 persons.	Male 1 per 50	Male Female 1 per 40 1 per 40		
Schools - for student use Nursery	Male Female 1:1-20 1:1-20 2:21-50 2:21-50 Over 50, add 1 fixture for each additional 50 persons.		Male Female 1:1-25 1:1-25 2:26-50 2:26-50 Over 50, add 1 fixture for each additional 50 persons.		
Elementary	Male Female 1 per 30 1 per 25	Male 1 per 75	Male Female 1 per 35 1 per 35		1 per 150 ¹²
Secondary	Male Female 1 per 40 1 per 30	Male 1 per 35	Male Female 1 per 40 1 per 40		1 per 150 ¹²
Others (Colleges, Universities, Adult centers, etc.)	Male Female 1 per 40 1 per 30	Male 1 per 35	Male Female 1 per 40 1 per 40		1 per 150 ¹²
Worship Places Educational and Activities Unit	Male Female 1 per 150 1 per 75	Male 1 per 150	1 per 2 water closets		1 per 150 ¹²
Worship Places Principal Assembly Place	Male Female 1 per 150 1 per 75	Male 1 per 150	1 per 2 water closets		1 per 150 ¹²
<i>Fitness Center Gym</i>	<i>Male Female 1:1-50 1:1-19</i>	<i>Male 1:21-50</i>	<i>Male Female 1:1-100 1:1-100</i>	<i>Male Female 0:1-30 0:1-30</i>	<i>1 per 200</i>

TYPE OF BUILDING ² OR OCCUPANCY	WATER CLOSETS ¹⁴ (FIXTURES PER PERSON)	URINALS ^{5,10} (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)	BATHRUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS ³ ^{13, 17} (FIXTURES PER PERSON)
<i>Weight Room</i>	2:20-50 2:51-100 3:51-100 Add one fixture for each additional 200 males or 200 females.	2:51-100 Add one fixture for each additional 200 males.	2:51-100 2:51-100 Add one fixture for each additional 200 males or females.	2:31-100 2:31- 100 Add one fixture for each additional 200 males or females.	

Footnotes:

- The figures shown are based upon one (1) fixture being the minimum required for the number of persons indicated or any fraction thereof.
- Building categories not shown on this table shall be considered separately by the Authority Having Jurisdiction.
- Drinking fountains shall not be installed in toilet rooms.
- Laundry trays. One (1) laundry tray or one (1) automatic washer standpipe for each dwelling unit or one (1) laundry tray or one (1) automatic washer standpipe or combination thereof, for each twelve (12) apartments. Kitchen sinks, one (1) for each dwelling or apartment unit.
- For each urinal added in excess of the minimum required, one water closet shall be permitted to be deducted. The number of water closets shall not be reduced to less than two-thirds ($\frac{2}{3}$) of the minimum requirement.
- As required by PSAI Z4.1, *Sanitation in Places of Employment*.
- Where there is exposure to skin contamination with poisonous, infectious, or irritating materials, provide one (1) lavatory for each five (5) persons.
- Twenty-four (24) lineal inches (610 mm) of wash sink or eighteen (18) inches (457 mm) of a circular basin, when provided with water outlets for such space, shall be considered equivalent to one (1) lavatory.
- Laundry trays, one (1) for each fifty (50) persons. Service sinks, one (1) for each hundred (100) persons.
- General. In applying this schedule of facilities, consideration shall be given to the accessibility of the fixtures. Conformity purely on a numerical basis may not result in an installation suited to the needs of the individual establishment. For example, schools should be provided with toilet facilities on each floor having classrooms.
 - Surrounding materials, wall, and floor space to a point two (2) feet (610 mm) in front of urinal lip and four (4) feet (1,219 mm) above the floor, and not less than two (2) feet (610 mm) to each side of the urinal shall be lined with non-absorbent materials.
 - Trough urinals shall be prohibited.
- A restaurant is defined as a business that sells food to be consumed on the premises.
 - The number of occupants for a drive-in restaurant shall be considered as equal to the number of parking stalls.
 - Hand-washing facilities shall be available in the kitchen for employees.
- Where food is consumed indoors, water stations shall be permitted to be substituted for drinking fountains. Offices or public buildings for use by more than six (6) persons shall have one (1) drinking fountain for the first one-hundred fifty (150) persons and one (1) additional fountain for each three-hundred (300) persons thereafter.
- There shall be at least one (1) drinking fountain per occupied floor in schools, theatres, auditoriums, dormitories, offices, or public buildings.
- The total number of water closets for females shall be equal to the total number of water closets and urinals required for males. This requirement shall not apply to Retail or Wholesale Stores.
- For smaller-type Public and Professional Offices such as banks, dental offices, law offices, real estate offices, architectural offices, engineering offices, and similar uses. A public area in these offices shall use the requirements for Retail or Wholesale Stores.
- Recreation or community room in multiple dwellings or apartment buildings, regardless of their occupant load, shall be permitted to have separate single accommodation facilities in common-use areas within tracts or multi-family residential occupancies where the use of these areas is limited exclusively to owners, residents, and their guests. Examples are community recreation or multi-purpose areas in apartments, condos, townhouses, or tracts.
- A drinking fountain shall not be required in occupancies of 30 or less. When a drinking fountain is not required, then footnotes 3, 12, and 13 are not applicable.
- [BSC, DSA-AC, DSA-SS, DSA-SS/CC, HCD 1 & HCD 2 & OSHPD 1, 2, 3 & 4] In accordance with Sections 1.8.7 and 301.2, the Authority Having Jurisdiction may approve alternative design criteria when determining the minimum number of plumbing fixtures.
- Fixtures need to not be located within the locked room provided a communication system or procedure is in effect to give the minor immediate access to a lavatory, toilet and drinking fountain.
- Restaurants, lounges or coffee shops with total of 2000 square feet or smaller (including outdoor seating area, bar, kitchen, etc.) shall have a minimum of one restroom with one water closet, and one sink.
- Restaurants, lounges or coffee shops with total space area of greater than 2000 square feet and up to 3000 square feet including the storage, outdoor seating area, bar, kitchen, etc., shall have two separate restroom facilities. *Male's* restroom shall have a minimum of one water closet, one urinal and one sink. *Female's* restroom shall have a minimum of one water closet and of sink. Multiple accommodation restroom facilities may be provided.
- The area for the employee conference rooms within office used by staff only, is exempt from plumbing fixture calculation. For all other conference rooms, the plumbing fixture count shall be per above table.